Surface Science 187 (1987) 580–584
North-Holland, Amsterdam

AUTHOR INDEX

Aizawa, T., see Souda 187 (1987) L592
Allen, L.R., see Conrad 187 (1987) 265
Andersson, S., see Westerlund 187 (1987) L669
Aono, M., see Souda 187 (1987) L592

Bao, S., C.F. McConville and D.P. Woodruff, An angle-resolved photoemission study of the reaction of CH_3SH and $(CH_3S)_2$ with Cu(111) and Ni(100) 187 (1987) 133
Bao, S., C.F. McConville and D.P. Woodruff, Valence band photoemission from the CO-adsorption systems Ni(100)/CO/K and Ni(100)/CO/S 187 (1987) 481
Barnes, W.L. and J.R. Sambles, Surface-pressure effects on Langmuir–Blodgett multilayers of 22-tricosenoic acid 187 (1987) 144
Barteau, M.A., see Davis 187 (1987) 387
Bauer, E., see Park 187 (1987) 86
Benegas, E.I., V.D. Pereyra and G. Zgrablich, On the behaviour of adsorption isotherms of a Lennard-Jones gas on a disordered lattice 187 (1987) L647
Benndorf, C., T.E. Madey and A.L. Johnson, NH_3 adsorption and dissociation on a stepped Fe(s)(100) surface 187 (1987) 434
Bergveld, P., see Voorthuyzen 187 (1987) 201
Berkó, A. and F. Solymosi, Structure and properties of potassium on Pd(100) surface 187 (1987) 359
Berlowitz, P.J. and D.W. Goodman, The adsorption of H_2 and CO on strained Ni overlayers on W(110) and W(100) 187 (1987) 463
Blanchard, D.L., see Conrad 187 (1987) 265
Brass, S.G. and G. Ehrlich, Dissociative and molecular adsorption of methane on rhodium 187 (1987) 21
Brito-Orta, R.A., V.R. Velasco and F. Garcia-Moliner, Sagittal elastic waves in cubic superlattices 187 (1987) 223

Cassuto, A., see Jakob 187 (1987) 407
Chen, J.G., J.E. Crowell and J.T. Yates, Jr., Ni cluster chemistry on Al_2O_3 – a vibrational EELS study using chemisorbed CO on a model catalyst: $Ni/Al_2O_3/Al(111)$ 187 (1987) 243
Chesters, M.A. and E.M. McCash, Ethylidyne formation on Pt(111), studied by FT-RAIRS 187 (1987) L639
Chung, M.S., T.E. Feuchtwang and P.H. Cutler, Spherical tip model in the theory of the scanning tunneling microscope 187 (1987) 559
Clarke, A., G. Jennings, R.F. Willis, P.J. Rous and J.B. Pendry, A LEED determination of the structure of cobalt overlayers grown on a single-crystal Cu(001) substrate 187 (1987) 327
Comsa, G., see Verheij 187 (1987) L581
Conrad, E.H., L.R. Allen, D.L. Blanchard and T. Engel, Kosterlitz–Thouless roughening at the Ni(113) surface 187 (1987) 265
Córdoba, A., see Luque 187 (1987) L611

Cowell, P.G. and V.E. de Carvalho, Unconstrained optimisation in surface crystallography by LEED: preliminary results of its application to CdTe(110) 187 (1987) 175
Crisà, N., G. Doyen and R. Hübner, Non-adiabatic inelastic scattering and intra-molecular vibrational excitation at metal surfaces 187 (1987) 289
Crowell, J.E., see Chen 187 (1987) 243
Cutler, P.H., see Chung 187 (1987) 559

Davis, J.L. and M.A. Barteau, Decarbonylation and decomposition pathways of alcohols on Pd(111) 187 (1987) 387
De Carvalho, V.E., see Cowell 187 (1987) 175
Doyen, G., see Crisà 187 (1987) 289
Driscoll, T.J., L.D. McCormick and W.C. Lederer, Altered layer formation and sputtering yields for 5 keV Ar^+ bombardment of MoO_3 and WO_3 187 (1987) 539

Ehrlich, G., see Brass 187 (1987) 21
Engel, T., see Conrad 187 (1987) 265
Erickson, J.W. and S. Semancik, Surface conductivity changes in SnO_2(110): effects of oxygen 187 (1987) L658

Falcone, G., Theory of collisional sputtering 187 (1987) 212
Ferrer, S., see Sánchez 187 (1987) L587
Feuchtwang, T.E., see Chung 187 (1987) 559
Finster, J., see Ranke 187 (1987) 112
Franchy, R., M. Wuttig, H. Ibach, T.S. Rahman and J. He, Surface phonon dispersion of Cu(100)-p(2 × 2)S 187 (1987) 58

Garcia-Moliner, F., see Brito-Orta 187 (1987) 223
Goodman, D.W., see Berlowitz 187 (1987) 463
Graham, G.W., Carbon monoxide chemisorption on Cu_3Au(100) and related surfaces 187 (1987) 490
Graham, W.R.C. and D.T. Lynch, Island models and the catalytic oxidation of carbon monoxide 187 (1987) L633

Hamaguchi, I., see Ishikawa 187 (1987) L606
Harris, J., see Persson 187 (1987) 67
He, J., see Franchy 187 (1987) 58
Hirashima, A., see Nagai 187 (1987) L616
Holtslag, A.H.M. and A. van Silfhout, The desorption behaviour of implanted noble gases at low energy on silicon surfaces 187 (1987) 36
Hosokawa, Y., see Ishikawa 187 (1987) L606
Huber, M., see Maurice 187 (1987) 312
Hübner, R., see Crisà 187 (1987) 289

Ibach, H., see Franchy 187 (1987) 58
Ichimiya, A., RHEED intensities from stepped surfaces 187 (1987) 194
Ichinokawa, T., see Ishikawa 187 (1987) L606
Imoto, S., see Tanabe 187 (1987) 499
Ishikawa, Y., Y. Hosokawa, I. Hamaguchi and T. Ichinokawa, Formation of domains on reconstructed structure in Si(110) vicinal surfaces 187 (1987) L606

Jakob, P., A. Cassuto and D. Menzel, Adsorption and reaction of acetylene on Ru(001): vibrational spectroscopy and thermal desorption 187 (1987) 407
Jennings, G., see Clarke 187 (1987) 327
Johnson, A.L., see Benndorf 187 (1987) 434
Jönsson, L., see Westerlund 187 (1987) L669

Katircioglu, S., Interaction of water molecule with silicon surfaces 187 (1987) 569
Kellogg, G.L., Surface diffusion and clustering of nickel atoms on the (110) plane of tungsten 187 (1987) 153
Keskin, K., see Voorthuyzen 187 (1987) 201
Kuhr, H.J. and W. Ranke, H_2O adsorption on a cylindrical germanium sample 187 (1987) 98
Kuhr, H.J., see Ranke 187 (1987) 112

Ladas, S., Defining the rate of reaction in model heterogeneous catalytic experiments 187 (1987) L621
Lambert, R.M., see Patterson 187 (1987) 339
Lederer, W.C., see Driscoll 187 (1987) 539
Leppinen, J., see Mielczarski 187 (1987) 526
Luque, J.J. and A. Córdoba, Temperature programmed desorption by dimers from a surface 187 (1987) L611
Lux, J., see Verheij 187 (1987) L581
Lynch, D.T., see Graham 187 (1987) L633

Madey, T.E., see Benndorf 187 (1987) 434
Maurice, V., J. Oudar and M. Huber, Interpretation of fractional-order Bragg reflections with zero intensity in LEED patterns 187 (1987) 312
McCash, E.M., see Chesters 187 (1987) L639
McConville, C.F., see Bao 187 (1987) 133
McConville, C.F., see Bao 187 (1987) 481
McCormick, L.D., see Driscoll 187 (1987) 539
Menzel, D., see Jakob 187 (1987) 407
Mielczarski, J. and J. Leppinen, Infrared reflection-absorption spectroscopic study of adsorption of xanthates on copper 187 (1987) 526
Mitchell, K.A.R., see Wong 187 (1987) L599

Nagai, K. and A. Hirashima, Zero-order desorption is always observed in phase equilibrium within adsorbates? 187 (1987) L616

Ohtani, H., M.A. Van Hove and G.A. Somorjai, LEED intensity analysis of the surface structures of Pd(111) and of CO adsorbed on Pd(111) in a $(\sqrt{3} \times \sqrt{3})R30°$ arrangement 187 (1987) 372
Oshima, C., see Souda 187 (1987) L592
Oudar, J., see Maurice 187 (1987) 312

Park, C., E. Bauer and H. Poppa, A re-examination of the Cu/Ru(0001) system 187 (1987) 86
Patterson, C.H. and R.M. Lambert, Structure and properties of the palladium/sulphur interface: S_2 chemisorption on Pd(111) 187 (1987) 339
Pendry, J.B., see Clarke 187 (1987) 327
Pereyra, V.D., see Benegas 187 (1987) L647

Persson, M. and J. Harris, Trajectory approximation calculations of the sticking coefficient of Ne on Cu(100) 187 (1987) 67
Poelsema, B., see Verheij 187 (1987) L581
Poppa, H., see Park 187 (1987) 86

Rahman, T.S., see Franchy 187 (1987) 58
Ranke, W., see Kuhr 187 (1987) 98
Ranke, W., J. Finster and H.J. Kuhr, Orientation-dependent surface core-level shifts and chemical shifts on clean and H_2S-covered GaAs 187 (1987) 112
Rous, P.J., see Clarke 187 (1987) 327

Sales, J.L. and G. Zgrablich, Thermal desorption of interacting molecules from heterogeneous surfaces; application to CO desorption from MgO 187 (1987) 1
Sambles, J.R., see Barnes 187 (1987) 144
Sánchez, A. and S. Ferrer, Cross section for diffuse scattering from random steps on Cu(100) determined by TEAS (thermal energy atom scattering) 187 (1987) L587
Sant, R. and E.E. Wolf, FTIR studies of spatial effects of the ignition transition during the oxidation of CO on Pt/SiO_2 187 (1987) 511
Semancik, S., see Erickson 187 (1987) L658
Shustorovich, E., Bond making and breaking on transition-metal surfaces revisited; when the bond-order-conservation criteria may not be sufficient 187 (1987) L627
Solymosi, F., see Berkó 187 (1987) 359
Somorjai, G.A., see Ohtani 187 (1987) 372
Souda, R., T. Aizawa, C. Oshima, M. Aono, S. Tsuneyuki and M. Tsukada, Quasiresonant charge-exchange and reionization in low energy He^+ scattering from Sn 187 (1987) L592

Tanabe, T., M. Tanaka and S. Imoto, AES and XPS studies of oxygen stabilized alpha zirconium 187 (1987) 499
Tanaka, M., see Tanabe 187 (1987) 499
Träger, F., see Vollmer 187 (1987) 445
Tsitsopoulos, L.T. and T.T. Tsotsis, An ellipsometric investigation of reaction rate oscillations during H_2 oxidation on Ni 187 (1987) 165
Tsotsis, T.T., see Tsitsopoulos 187 (1987) 165
Tsukada, M., see Souda 187 (1987) L592
Tsuneyuki, S., see Souda 187 (1987) L592

Van Hove, M.A., see Ohtani 187 (1987) 372
Van Silfhout, A., see Holtslag 187 (1987) 36
Velasco, V.R., see Brito-Orta 187 (1987) 223
Verheij, L.K., J. Lux, B. Poelsema and G. Comsa, A direct comparison between the scattering of light gases from free CO and from CO adsorbed on the Pt(111) surface 187 (1987) L581
Vollmer, M. and F. Träger, Analysis of fractional order thermal desorption 187 (1987) 445
Voorthuyzen, J.A., K. Keskin and P. Bergveld, Investigations of the surface conductivity of silicon dioxide and methods to reduce it 187 (1987) 201

Wautelet, M., Comment on 'Surface phase transitions and defect–phonon interactions: the Si(111)-(2 × 1) to (7 × 7) to (1 × 1) transitions' by M. Wautelet, Y. Canivez and A. Pigeolet 187 (1987) L655
Westerlund, L., L. Jönsson and S. Andersson, Formation of chemisorbed H_2 in the Ni(100)–H–CO coadsorption system 187 (1987) L669

Willis, R.F., see Clarke 187 (1987) 327
Wolf, E.E., see Sant 187 (1987) 511
Wong, P.C. and K.A.R. Mitchell, A LEED crystallographic investigation of a surface structure designated Zr(0001)-(1 × 1)-N 187 (1987) L599
Woodruff, D.P., see Bao 187 (1987) 133
Woodruff, D.P., see Bao 187 (1987) 481
Wuttig, M., see Franchy 187 (1987) 58

Yates, Jr., J.T., see Chen 187 (1987) 243

Zgrablich, G., see Benegas 187 (1987) L647
Zgrablich, G., see Sales 187 (1987) 1
Zhdanov, V.P., Steady-state kinetics of reactions limited by surface diffusion 187 (1987) L642

Surface Science 187 (1987) 585–596
North-Holland, Amsterdam

SUBJECT INDEX

Acetylene

P. Jakob, A. Cassuto and D. Menzel, Adsorption and reaction of acetylene on Ru(001): vibrational spectroscopy and thermal desorption 187 (1987) 407

Adsorption isotherms, see also Chemisorption theory

E.I. Benegas, V.D. Pereyra and G. Zgrablich, On the behaviour of adsorption isotherms of a Lennard-Jones gas on a disordered lattice 187 (1987) L647
S.G. Brass and G. Ehrlich, Dissociative and molecular adsorption of methane on rhodium 187 (1987) 21

Alkali halides

M. Vollmer and F. Träger, Analysis of fractional order thermal desorption 187 (1987) 445

Alkali metals

A. Berkó and F. Solymosi, Structure and properties of potassium on Pd(100) surface 187 (1987) 359
M. Vollmer and F. Träger, Analysis of fractional order thermal desorption 187 (1987) 445
S. Bao, C.F. McConville and D.P. Woodruff, Valence band photoemission from the CO-adsorption systems Ni(100)/CO/K and Ni(100)/CO/S 187 (1987) 481

Alloys

G.W. Graham, Carbon monoxide chemisorption on $Cu_3Au(100)$ and related surfaces 187 (1987) 490

Aluminium oxide

J.G. Chen, J.E. Crowell and J.T. Yates, Jr., Ni cluster chemistry on Al_2O_3 – a vibrational EELS study using chemisorbed CO on a model catalyst: $Ni/Al_2O_3/Al(111)$ 187 (1987) 243

Ammonia

C. Benndorf, T.E. Madey and A.L. Johnson, NH_3 adsorption and dissociation on a stepped Fe(s)(100) surface 187 (1987) 434

Atom scattering

L.K. Verheij, J. Lux, B. Poelsema and G. Comsa, A direct comparison between the scattering of light gases from free CO and from CO adsorbed on the Pt(111) surface 187 (1987) L581
A. Sánchez and S. Ferrer, Cross section for diffuse scattering from random steps on Cu(100) determined by TEAS (thermal energy atom scattering) 187 (1987) L587
M. Persson and J. Harris, Trajectory approximation calculations of the sticking coefficient of Ne on Cu(100) 187 (1987) 67
E.H. Conrad, L.R. Allen, D.L. Blanchard and T. Engel, Kosterlitz–Thouless roughening at the Ni(113) surface 187 (1987) 265
N. Crisà, G. Doyen and R. Hübner, Non-adiabatic inelastic scattering and intra-molecular vibrational excitation at metal surfaces 187 (1987) 289

Auger electron spectroscopy

C. Park, E. Bauer and H. Poppa, A re-examination of the Cu/Ru(0001) system 187 (1987) 86
H.J. Kuhr and W. Ranke, H_2O adsorption on a cylindrical germanium sample 187 (1987) 98
C.H. Patterson and R.M. Lambert, Structure and properties of the palladium/sulphur interface: S_2 chemisorption on Pd(111) 187 (1987) 339
T. Tanabe, M. Tanaka and S. Imoto, AES and XPS studies of oxygen stabilized alpha zirconium 187 (1987) 499

Cadmium telluride

P.G. Cowell and V.E. de Carvalho, Unconstrained optimisation in surface crystallography by LEED: preliminary results of its application to CdTe(110) 187 (1987) 175

Carbon monoxide

L.K. Verheij, J. Lux, B. Poelsema and G. Comsa, A direct comparison between the scattering of light gases from free CO and from CO adsorbed on the Pt(111) surface 187 (1987) L581
W.R.C. Graham and D.T. Lynch, Island models and the catalytic oxidation of carbon monoxide 187 (1987) L633
J.L. Sales and G. Zgrablich, Thermal desorption of interacting molecules from heterogeneous surfaces; application to CO desorption from MgO 187 (1987) 1
C. Park, E. Bauer and H. Poppa, A re-examination of the Cu/Ru(0001) system 187 (1987) 86
L. Westerlund, L. Jönsson and S. Andersson, Formation of chemisorbed H_2 in the Ni(100)–H–CO coadsorption system 187 (1987) L669
J.G. Chen, J.E. Crowell and J.T. Yates, Jr., Ni cluster chemistry on Al_2O_3 – a vibrational EELS study using chemisorbed CO on a model catalyst: $Ni/Al_2O_3/Al(111)$ 187 (1987) 243
H. Ohtani, M.A. Van Hove and G.A. Somorjai, LEED intensity analysis of the surface structures of Pd(111) and of CO adsorbed on Pd(111) in a $(\sqrt{3} \times \sqrt{3})R30°$ arrangement 187 (1987) 372

P.J. Berlowitz and D.W. Goodman, The adsorption of H_2 and CO on strained Ni overlayers on W(110) and W(100) 187 (1987) 463
S. Bao, C.F. McConville and D.P. Woodruff, Valence band photoemission from the CO-adsorption systems Ni(100)/CO/K and Ni(100)/CO/S 187 (1987) 481
G.W. Graham, Carbon monoxide chemisorption on $Cu_3Au(100)$ and related surfaces 187 (1987) 490
R. Sant and E.E. Wolf, FTIR studies of spatial effects of the ignition transition during the oxidation of CO on Pt/SiO_2 187 (1987) 511

Catalysis

S. Ladas, Defining the rate of reaction in model heterogeneous catalytic experiments 187 (1987) L621
J.G. Chen, J.E. Crowell and J.T. Yates, Jr., Ni cluster chemistry on Al_2O_3 – a vibrational EELS study using chemisorbed CO on a model catalyst: $Ni/Al_2O_3/Al(111)$ 187 (1987) 243
R. Sant and E.E. Wolf, FTIR studies of spatial effects of the ignition transition during the oxidation of CO on Pt/SiO_2 187 (1987) 511

Chemisorption theory

E. Shustorovich, Bond making and breaking on transition-metal surfaces revisited; when the bond-order-conservation criteria may not be sufficient 187 (1987) L627
S. Katircioglu, Interaction of water molecule with silicon surfaces 187 (1987) 569

Cobalt

A. Clarke, G. Jennings, R.F. Willis, P.J. Rous and J.B. Pendry, A LEED determination of the structure of cobalt overlayers grown on a single-crystal Cu(001) substrate 187 (1987) 327

Conductivity

J.W. Erickson and S. Semancik, Surface conductivity changes in $SnO_2(110)$: effects of oxygen 187 (1987) L658

Copper

A. Sánchez and S. Ferrer, Cross section for diffuse scattering from random steps on Cu(100) determined by TEAS (thermal energy atom scattering) 187 (1987) L587
R. Franchy, M. Wuttig, H. Ibach, T.S. Rahman and J. He, Surface phonon dispersion of Cu(100)-p(2 × 2)S 187 (1987) 58
M. Persson and J. Harris, Trajectory approximation calculations of the sticking coefficient of Ne on Cu(100) 187 (1987) 67
C. Park, E. Bauer and H. Poppa, A re-examination of the Cu/Ru(0001) system 187 (1987) 86
S. Bao, C.F. McConville and D.P. Woodruff, An angle-resolved photoemission study of the reaction of CH_3SH and $(CH_3S)_2$ with Cu(111) and Ni(100) 187 (1987) 133

A. Clarke, G. Jennings, R.F. Willis, P.J. Rous and J.B. Pendry, A LEED determination of the structure of cobalt overlayers grown on a single-crystal Cu(001) substrate 187 (1987) 327
J. Mielczarski and J. Leppinen, Infrared reflection-absorption spectroscopic study of adsorption of xanthates on copper 187 (1987) 526

Dielectric constant

W.L. Barnes and J.R. Sambles, Surface-pressure effects on Langmuir–Blodgett multilayers of 22-tricosenoic acid 187 (1987) 144

Electron diffraction, see also Low energy electron diffraction

A. Ichimiya, RHEED intensities from stepped surfaces 187 (1987) 194

Electron loss spectroscopy

R. Franchy, M. Wuttig, H. Ibach, T.S. Rahman and J. He, Surface phonon dispersion of Cu(100)-p(2 × 2)S 187 (1987) 58
L. Westerlund, L. Jönsson and S. Andersson, Formation of chemisorbed H_2 in the Ni(100)–H–CO coadsorption system 187 (1987) L669
J.G. Chen, J.E. Crowell and J.T. Yates, Jr., Ni cluster chemistry on Al_2O_3 – a vibrational EELS study using chemisorbed CO on a model catalyst: $Ni/Al_2O_3/Al(111)$ 187 (1987) 243
A. Berkó and F. Solymosi, Structure and properties of potassium on Pd(100) surface 187 (1987) 359
P. Jakob, A. Cassuto and D. Menzel, Adsorption and reaction of acetylene on Ru(001): vibrational spectroscopy and thermal desorption 187 (1987) 407

Electron stimulated desorption

C. Benndorf, T.E. Madey and A.L. Johnson, NH_3 adsorption and dissociation on a stepped Fe(s)(100) surface 187 (1987) 434

Ellipsometry

L.T. Tsitsopoulos and T.T. Tsotsis, An ellipsometric investigation of reaction rate oscillations during H_2 oxidation on Ni 187 (1987) 165

Ethanol

J.L. Davis and M.A. Barteau, Decarbonylation and decomposition pathways of alcohols on Pd(111) 187 (1987) 387

Ethylene

M.A. Chesters and E.M. McCash, Ethylidyne formation on Pt(111), studied by FT-RAIRS 187 (1987) L639

Field ion microscopy

G.L. Kellogg, Surface diffusion and clustering of nickel atoms on the (110) plane of tungsten 187 (1987) 153

Gallium arsenide

W. Ranke, J. Finster and H.J. Kuhr, Orientation-dependent surface core-level shifts and chemical shifts on clean and H_2S-covered GaAs 187 (1987) 112
A. Ichimiya, RHEED intensities from stepped surfaces 187 (1987) 194

Germanium

H.J. Kuhr and W. Ranke, H_2O adsorption on a cylindrical germanium sample 187 (1987) 98

Hydrogen

L.T. Tsitsopoulos and T.T. Tsotsis, An ellipsometric investigation of reaction rate oscillations during H_2 oxidation on Ni 187 (1987) 165
L. Westerlund, L. Jönsson and S. Andersson, Formation of chemisorbed H_2 in the Ni(100)–H–CO coadsorption system 187 (1987) L669
P.J. Berlowitz and D.W. Goodman, The adsorption of H_2 and CO on strained Ni overlayers on W(110) and W(100) 187 (1987) 463

Hydrogen sulphide

W. Ranke, J. Finster and H.J. Kuhr, Orientation-dependent surface core-level shifts and chemical shifts on clean and H_2S-covered GaAs 187 (1987) 112

Infrared spectroscopy

M.A. Chesters and E.M. McCash, Ethylidyne formation on Pt(111), studied by FT-RAIRS 187 (1987) L639
R. Sant and E.E. Wolf, FTIR studies of spatial effects of the ignition transition during the oxidation of CO on Pt/SiO_2 187 (1987) 511
J. Mielczarski and J. Leppinen, Infrared reflection-absorption spectroscopic study of adsorption of xanthates on copper 187 (1987) 526

Ion scattering

R. Souda, T. Aizawa, C. Oshima, M. Aono, S. Tsuneyuki and M. Tsukada, Quasiresonant charge-exchange and reionization in low energy He^+ scattering from Sn 187 (1987) L592

Iron

C. Benndorf, T.E. Madey and A.L. Johnson, NH_3 adsorption and dissociation on a stepped Fe(s)(100) surface 187 (1987) 434

Low energy electron diffraction

P.C. Wong and K.A.R. Mitchell, A LEED crystallographic investigation of a surface structure designated Zr(0001)-(1 × 1)-N 187 (1987) L599
Y. Ishikawa, Y. Hosokawa, I. Hamaguchi and T. Ichinokawa, Formation of domains on reconstructed structure in Si(110) vicinal surfaces 187 (1987) L606
P.G. Cowell and V.E. de Carvalho, Unconstrained optimisation in surface crystallography by LEED: preliminary results of its application to CdTe(110) 187 (1987) 175
V. Maurice, J. Oudar and M. Huber, Interpretation of fractional-order Bragg reflections with zero intensity in LEED patterns 187 (1987) 312
A. Clarke, G. Jennings, R.F. Willis, P.J. Rous and J.B. Pendry, A LEED determination of the structure of cobalt overlayers grown on a single-crystal Cu(001) substrate 187 (1987) 327
C.H. Patterson and R.M. Lambert, Structure and properties of the palladium/sulphur interface: S_2 chemisorption on Pd(111) 187 (1987) 339
A. Berkó and F. Solymosi, Structure and properties of potassium on Pd(100) surface 187 (1987) 359
H. Ohtani, M.A. Van Hove and G.A. Somorjai, LEED intensity analysis of the surface structures of Pd(111) and of CO adsorbed on Pd(111) in a $(\sqrt{3} \times \sqrt{3})R30°$ arrangement 187 (1987) 372
C. Benndorf, T.E. Madey and A.L. Johnson, NH_3 adsorption and dissociation on a stepped Fe(s)(100) surface 187 (1987) 434

Magnesium oxide

J.L. Sales and G. Zgrablich, Thermal desorption of interacting molecules from heterogeneous surfaces; application to CO desorption from MgO 187 (1987) 1

Methane

S.G. Brass and G. Ehrlich, Dissociative and molecular adsorption of methane on rhodium 187 (1987) 21

Methanol

J.L. Davis and M.A. Barteau, Decarbonylation and decomposition pathways of alcohols on Pd(111) 187 (1987) 387

Molecular beam studies

N. Crisà, G. Doyen and R. Hübner, Non-adiabatic inelastic scattering and intra-molecular vibrational excitation at metal surfaces 187 (1987) 289

Molybdenum oxide

T.J. Driscoll, L.D. McCormick and W.C. Lederer, Altered layer formation and sputtering yields for 5 keV Ar^+ bombardment of MoO_3 and WO_3 187 (1987) 539

Nickel

S. Bao, C.F. McConville and D.P. Woodruff, An angle-resolved photoemission study of the reaction of CH_3SH and $(CH_3S)_2$ with Cu(111) and Ni(100) 187 (1987) 133
G.L. Kellogg, Surface diffusion and clustering of nickel atoms on the (110) plane of tungsten 187 (1987) 153
L.T. Tsitsopoulos and T.T. Tsotsis, An ellipsometric investigation of reaction rate oscillations during H_2 oxidation on Ni 187 (1987) 165
L. Westerlund, L. Jönsson and S. Andersson, Formation of chemisorbed H_2 in the Ni(100)–H–CO coadsorption system 187 (1987) L669
J.G. Chen, J.E. Crowell and J.T. Yates, Jr., Ni cluster chemistry on Al_2O_3 – a vibrational EELS study using chemisorbed CO on a model catalyst: $Ni/Al_2O_3/Al(111)$ 187 (1987) 243
E.H. Conrad, L.R. Allen, D.L. Blanchard and T. Engel, Kosterlitz–Thouless roughening at the Ni(113) surface 187 (1987) 265
P.J. Berlowitz and D.W. Goodman, The adsorption of H_2 and CO on strained Ni overlayers on W(110) and W(100) 187 (1987) 463
S. Bao, C.F. McConville and D.P. Woodruff, Valence band photoemission from the CO-adsorption systems Ni(100)/CO/K and Ni(100)/CO/S 187 (1987) 481

Nitrogen

P.C. Wong and K.A.R. Mitchell, A LEED crystallographic investigation of a surface structure designated Zr(0001)-(1 × 1)-N 187 (1987) L599

Noble gases

A.H.M. Holtslag and A. van Silfhout, The desorption behaviour of implanted noble gases at low energy on silicon surfaces 187 (1987) 36
M. Persson and J. Harris, Trajectory approximation calculations of the sticking coefficient of Ne on Cu(100) 187 (1987) 67

Organic substances

S. Bao, C.F. McConville and D.P. Woodruff, An angle-resolved photoemission study of the reaction of CH_3SH and $(CH_3S)_2$ with Cu(111) and Ni(100) 187 (1987) 133
W.L. Barnes and J.R. Sambles, Surface-pressure effects on Langmuir–Blodgett multilayers of 22-tricosenoic acid 187 (1987) 144
J.L. Davis and M.A. Barteau, Decarbonylation and decomposition pathways of alcohols on Pd(111) 187 (1987) 387
J. Mielczarski and J. Leppinen, Infrared reflection-absorption spectroscopic study of adsorption of xanthates on copper 187 (1987) 526

Oxygen

W.R.C. Graham and D.T. Lynch, Island models and the catalytic oxidation of carbon monoxide 187 (1987) L633
L.T. Tsitsopoulos and T.T. Tsotsis, An ellipsometric investigation of reaction rate oscillations during H_2 oxidation on Ni 187 (1987) 165

J.W. Erickson and S. Semancik, Surface conductivity changes in SnO_2(110): effects of oxygen 187 (1987) L658
T. Tanabe, M. Tanaka and S. Imoto, AES and XPS studies of oxygen stabilized alpha zirconium 187 (1987) 499

Palladium

C.H. Patterson and R.M. Lambert, Structure and properties of the palladium/sulphur interface: S_2 chemisorption on Pd(111) 187 (1987) 339
A. Berkó and F. Solymosi, Structure and properties of potassium on Pd(100) surface 187 (1987) 359
H. Ohtani, M.A. Van Hove and G.A. Somorjai, LEED intensity analysis of the surface structures of Pd(111) and of CO adsorbed on Pd(111) in a $(\sqrt{3} \times \sqrt{3})R30°$ arrangement 187 (1987) 372
J.L. Davis and M.A. Barteau, Decarbonylation and decomposition pathways of alcohols on Pd(111) 187 (1987) 387

Photoelectron spectroscopy

W. Ranke, J. Finster and H.J. Kuhr, Orientation-dependent surface core-level shifts and chemical shifts on clean and H_2S-covered GaAs 187 (1987) 112
S. Bao, C.F. McConville and D.P. Woodruff, An angle-resolved photoemission study of the reaction of CH_3SH and $(CH_3S)_2$ with Cu(111) and Ni(100) 187 (1987) 133
S. Bao, C.F. McConville and D.P. Woodruff, Valence band photoemission from the CO-adsorption systems Ni(100)/CO/K and Ni(100)/CO/S 187 (1987) 481
G.W. Graham, Carbon monoxide chemisorption on Cu_3Au(100) and related surfaces 187 (1987) 490
T. Tanabe, M. Tanaka and S. Imoto, AES and XPS studies of oxygen stabilized alpha zirconium 187 (1987) 499

Photon emission

T.J. Driscoll, L.D. McCormick and W.C. Lederer, Altered layer formation and sputtering yields for 5 keV Ar^+ bombardment of MoO_3 and WO_3 187 (1987) 539

Platinum

L.K. Verheij, J. Lux, B. Poelsema and G. Comsa, A direct comparison between the scattering of light gases from free CO and from CO adsorbed on the Pt(111) surface 187 (1987) L581
M.A. Chesters and E.M. McCash, Ethylidyne formation on Pt(111), studied by FT-RAIRS 187 (1987) L639
R. Sant and E.E. Wolf, FTIR studies of spatial effects of the ignition transition during the oxidation of CO on Pt/SiO_2 187 (1987) 511

Reflection spectroscopy

W.L. Barnes and J.R. Sambles, Surface-pressure effects on Langmuir–Blodgett multilayers of 22-tricosenoic acid 187 (1987) 144

Rhodium

S.G. Brass and G. Ehrlich, Dissociative and molecular adsorption of methane on rhodium 187 (1987) 21

Ruthenium

C. Park, E. Bauer and H. Poppa, A re-examination of the Cu/Ru(0001) system 187 (1987) 86
P. Jakob, A. Cassuto and D. Menzel, Adsorption and reaction of acetylene on Ru(001): vibrational spectroscopy and thermal desorption 187 (1987) 407

Silicon

Y. Ishikawa, Y. Hosokawa, I. Hamaguchi and T. Ichinokawa, Formation of domains on reconstructed structure in Si(110) vicinal surfaces 187 (1987) L606
A.H.M. Holtslag and A. van Silfhout, The desorption behaviour of implanted noble gases at low energy on silicon surfaces 187 (1987) 36
M. Wautelet, Comment on 'Surface phase transitions and defect–phonon interactions: the Si(111)-(2 × 1) to (7 × 7) to (1 × 1) transitions' by M. Wautelet, Y. Canivez and A. Pigeolet 187 (1987) L655
S. Katircioglu, Interaction of water molecule with silicon surfaces 187 (1987) 569

Silicon oxide

J.A. Voorthuyzen, K. Keskin and P. Bergveld, Investigations of the surface conductivity of silicon dioxide and methods to reduce it 187 (1987) 201

Sputtering

G. Falcone, Theory of collisional sputtering 187 (1987) 212
T.J. Driscoll, L.D. McCormick and W.C. Lederer, Altered layer formation and sputtering yields for 5 keV Ar^+ bombardment of MoO_3 and WO_3 187 (1987) 539

Sulphur

R. Franchy, M. Wuttig, H. Ibach, T.S. Rahman and J. He, Surface phonon dispersion of Cu(100)-p(2 × 2)S 187 (1987) 58
C.H. Patterson and R.M. Lambert, Structure and properties of the palladium/sulphur interface: S_2 chemisorption on Pd(111) 187 (1987) 339
S. Bao, C.F. McConville and D.P. Woodruff, Valence band photoemission from the CO-adsorption systems Ni(100)/CO/K and Ni(100)/CO/S 187 (1987) 481

Surface conductivity

J.A. Voorthuyzen, K. Keskin and P. Bergveld, Investigations of the surface conductivity of silicon dioxide and methods to reduce it 187 (1987) 201

Surface diffusion

V.P. Zhdanov, Steady-state kinetics of reactions limited by surface diffusion 187 (1987) L642
G.L. Kellogg, Surface diffusion and clustering of nickel atoms on the (110) plane of tungsten 187 (1987) 153

Surface phonons

R. Franchy, M. Wuttig, H. Ibach, T.S. Rahman and J. He, Surface phonon dispersion of Cu(100)-p(2 × 2)S 187 (1987) 58
R.A. Brito-Orta, V.R. Velasco and F. Garcia-Moliner, Sagittal elastic waves in cubic superlattices 187 (1987) 223

Surface roughness

E.H. Conrad, L.R. Allen, D.L. Blanchard and T. Engel, Kosterlitz–Thouless roughening at the Ni(113) surface 187 (1987) 265

Surface structure, see also Low energy electron diffraction

P.C. Wong and K.A.R. Mitchell, A LEED crystallographic investigation of a surface structure designated Zr(0001)-(1 × 1)-N 187 (1987) L599
Y. Ishikawa, Y. Hosokawa, I. Hamaguchi and T. Ichinokawa, Formation of domains on reconstructed structure in Si(110) vicinal surfaces 187 (1987) L606
P.G. Cowell and V.E. de Carvalho, Unconstrained optimisation in surface crystallography by LEED: preliminary results of its application to CdTe(110) 187 (1987) 175
A. Clarke, G. Jennings, R.F. Willis, P.J. Rous and J.B. Pendry, A LEED determination of the structure of cobalt overlayers grown on a single-crystal Cu(001) substrate 187 (1987) 327
H. Ohtani, M.A. Van Hove and G.A. Somorjai, LEED intensity analysis of the surface structures of Pd(111) and of CO adsorbed on Pd(111) in a $(\sqrt{3} \times \sqrt{3})R30°$ arrangement 187 (1987) 372

Thermal desorption

J.J. Luque and A. Córdoba, Temperature programmed desorption by dimers from a surface 187 (1987) L611
K. Nagai and A. Hirashima, Zero-order desorption is always observed in phase equilibrium within adsorbates? 187 (1987) L616
J.L. Sales and G. Zgrablich, Thermal desorption of interacting molecules from heterogeneous surfaces; application to CO desorption from MgO 187 (1987) 1
A.H.M. Holtslag and A. van Silfhout, The desorption behaviour of implanted noble gases at low energy on silicon surfaces 187 (1987) 36
C. Park, E. Bauer and H. Poppa, A re-examination of the Cu/Ru(0001) system 187 (1987) 86
C.H. Patterson and R.M. Lambert, Structure and properties of the palladium/sulphur interface: S_2 chemisorption on Pd(111) 187 (1987) 339
A. Berkó and F. Solymosi, Structure and properties of potassium on Pd(100) surface 187 (1987) 359

J.L. Davis and M.A. Barteau, Decarbonylation and decomposition pathways of alcohols on Pd(111) 187 (1987) 387
P. Jakob, A. Cassuto and D. Menzel, Adsorption and reaction of acetylene on Ru(001): vibrational spectroscopy and thermal desorption 187 (1987) 407
C. Benndorf, T.E. Madey and A.L. Johnson, NH_3 adsorption and dissociation on a stepped Fe(s)(100) surface 187 (1987) 434
M. Vollmer and F. Träger, Analysis of fractional order thermal desorption 187 (1987) 445
P.J. Berlowitz and D.W. Goodman, The adsorption of H_2 and CO on strained Ni overlayers on W(110) and W(100) 187 (1987) 463

Thin films

A. Clarke, G. Jennings, R.F. Willis, P.J. Rous and J.B. Pendry, A LEED determination of the structure of cobalt overlayers grown on a single-crystal Cu(001) substrate 187 (1987) 327
P.J. Berlowitz and D.W. Goodman, The adsorption of H_2 and CO on strained Ni overlayers on W(110) and W(100) 187 (1987) 463

Tin

R. Souda, T. Aizawa, C. Oshima, M. Aono, S. Tsuneyuki and M. Tsukada, Quasiresonant charge-exchange and reionization in low energy He^+ scattering from Sn 187 (1987) L592

Tin oxide

J.W. Erickson and S. Semancik, Surface conductivity changes in SnO_2(110): effects of oxygen 187 (1987) L658

Tungsten

G.L. Kellogg, Surface diffusion and clustering of nickel atoms on the (110) plane of tungsten 187 (1987) 153
P.J. Berlowitz and D.W. Goodman, The adsorption of H_2 and CO on strained Ni overlayers on W(110) and W(100) 187 (1987) 463

Tungsten oxide

T.J. Driscoll, L.D. McCormick and W.C. Lederer, Altered layer formation and sputtering yields for 5 keV Ar^+ bombardment of MoO_3 and WO_3 187 (1987) 539

Tunneling

M.S. Chung, T.E. Feuchtwang and P.H. Cutler, Spherical tip model in the theory of the scanning tunneling microscope 187 (1987) 559

Water

H.J. Kuhr and W. Ranke, H_2O adsorption on a cylindrical germanium sample 187 (1987) 98
S. Katircioglu, Interaction of water molecule with silicon surfaces 187 (1987) 569

Work function

C.H. Patterson and R.M. Lambert, Structure and properties of the palladium/sulphur interface: S_2 chemisorption on Pd(111) 187 (1987) 339
A. Berkó and F. Solymosi, Structure and properties of potassium on Pd(100) surface 187 (1987) 359

Zirconium

P.C. Wong and K.A.R. Mitchell, A LEED crystallographic investigation of a surface structure designated Zr(0001)-(1 × 1)-N 187 (1987) L599
T. Tanabe, M. Tanaka and S. Imoto, AES and XPS studies of oxygen stabilized alpha zirconium 187 (1987) 499